

# Part of Thermo Fisher Scientific

# SAFETY DATA SHEET

Creation Date 21-Oct-2009	reation Date21-Oct-2009Revision Date29-Oct-2014		
	1. Identification		
Product Name	Ethyl alcohol, denatured (A407)		
Cat No. :	A407-1; A407-4; A407-20; A407-200; A407-500 A407RB-115; A407RB-200; A407S-4; A407SK-4		
Synonyms	Ethanol, denatured; Grain alcohol, denatured; Ethyl hydroxid	de, denatured	
Recommended Use	Laboratory chemicals.		
Uses advised against Details of the supplier of the safet	No Information available <u>/ data sheet</u>		
<b>Company</b> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887		

2. Hazard(s) identification

# Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquidsCategory 2Specific target organ toxicity (single exposure)Category 1Target Organs - Respiratory system, Central nervous system (CNS), Optic nerve.Specific target organ toxicity - (repeated exposure)Category 1Target Organs - Kidney, Liver, Blood.

# Label Elements

Signal Word Danger

Hazard Statements

Highly flammable liquid and vapor May cause respiratory irritation May cause drowsiness or dizziness Causes damage to organs Causes damage to organs through prolonged or repeated exposure



# **Precautionary Statements**

# Prevention

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Keep cool Response IF exposed: Call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Repeated exposure may cause skin dryness or cracking Other hazards

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

# **Unknown Acute Toxicity**

.? % of the mixture consists of ingredients of unknown toxicity.

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Ethyl alcohol	64-17-5	88.785
Water	7732-18-5	4.673
Methyl alcohol	67-56-1	3.738
Methylisobutyl ketone	108-10-1	0.935
Ethylacetate	141-78-6	0.935
Hexane	110-54-3	0.822
Toluene	108-88-3	0.075

# 4. First-aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Notes to Physician	Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Unsuitable Extinguishing Media	Water may be ineffective
Flash Point	13.9 °C / 57 °F
Method -	No information available
Autoignition Temperature	362.8 °C / 685 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac	No data available No data available t No information available

# Sensitivity to Static Discharge No information available

# **Specific Hazards Arising from the Chemical**

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

# **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 3	Flammability 3	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	and upwind of spill/leak. Ev Take precautionary measur Should not be released into	acuate personnel to safe area es against static discharges.	ipment. Keep people away from s. Remove all sources of ignition. n into surface water or sanitary formation.

Methods for Containment and CleanSoak up with inert absorbent material. Keep in suitable, closed containers for disposal.UpRemove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

	7. Handling and storage
Handling	Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges. Use only non-sparking tools.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

# 8. Exposure controls / personal protection

# Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol	STEL: 1000 ppm	(Vacated) TWA: 1000 ppm (Vacated) TWA: 1900 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m <sup>3</sup> (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m <sup>3</sup> Skin TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm STEL: 325 mg/m <sup>3</sup>
Methylisobutyl ketone	TWA: 20 ppm STEL: 75 ppm	(Vacated) TWA: 50 ppm (Vacated) TWA: 205 mg/m <sup>3</sup> (Vacated) STEL: 75 ppm (Vacated) STEL: 300 mg/m <sup>3</sup> TWA: 100 ppm TWA: 410 mg/m <sup>3</sup>	IDLH: 500 ppm TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 300 mg/m <sup>3</sup>
Ethylacetate	TWA: 400 ppm	(Vacated) TWA: 400 ppm (Vacated) TWA: 1400 mg/m <sup>3</sup> TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>
Hexane	TWA: 50 ppm Skin	(Vacated) TWA: 50 ppm (Vacated) TWA: 180 mg/m <sup>3</sup> TWA: 500 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m³
Toluene	TWA: 20 ppm	(Vacated) TWA: 100 ppm (Vacated) TWA: 375 mg/m <sup>3</sup> Ceiling: 300 ppm (Vacated) STEL: 150 ppm (Vacated) STEL: 560 mg/m <sup>3</sup> TWA: 200 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Ethyl alcohol	TWA: 1000 ppm TWA: 1880 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	STEL: 1000 ppm
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m <sup>3</sup> STEL: 250 ppm STEL: 328 mg/m <sup>3</sup> Skin	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm STEL: 310 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 250 ppm Skin
Methylisobutyl ketone	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 307 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 307 mg/m <sup>3</sup>	TWA: 20 ppm STEL: 75 ppm
Ethylacetate	TWA: 400 ppm TWA: 1440 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 1400 mg/m³	TWA: 400 ppm
Hexane	TWA: 50 ppm TWA: 176 mg/m³ Skin	TWA: 50 ppm TWA: 176 mg/m³	TWA: 50 ppm Skin
Toluene	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 188 mg/m³	TWA: 20 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

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Physical State	Liquid
Appearance	Clear, Colorless
Odor	aromatic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-90.0 °C / -130 °F
Boiling Point/Range	78.5 °C / 173.3 °F
Flash Point	13.9 °C / 57 °F
Evaporation Rate	2.0
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	40.9 mmHg @ 20 °C
Vapor Density	No information available
Relative Density	0.7905
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	362.8 °C / 685 °F
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity				
Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.			
Incompatible Materials	Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
11. Toxicological information				

Acute Toxicity

Vapor LC50 Component Inform	ation	Based on ATE data	a, the classificatio	n criteria are not m	let. ATE > $20 \text{ mg/l}$ .	
Compone	nt	LD50 Oral		LD50 Dermal	LC50 I	nhalation
Ethyl alcoh	ol	Not listed		Not listed	20000 pp	m/10H ( Rat )
Methyl alco	hol	6200 mg/kg (Rat)		Not listed	22500 pp	m(Rat)8 h
Methylisobutyl I	ketone	2080 mg/kg (Rat)	300	0 mg/kg (Rabbit)	8.2 mg/L	_ (Rat)4 h
Ethylaceta	te	5620 mg/kg (Rat)	1800	0 mg/kg (Rabbit)	58 mg	/l (rat; 8 h)
Hexane		Not listed	300	0 mg/kg (Rabbit)	48000 pp	m(Rat)4 h
Toluene		> 5000 mg/kg (Rat)	) 1200	0 mg/kg (Rabbit)	26700 pp	m(Rat)1 h
Products Delayed and immed	diate effects as	well as chronic effe	cts from short ar	nd long-term expo	sure_	
ritation		Irritating to eyes and skin				
Sensitization Carcinogenicity						as a carcinogen
aremogenioity		Ethanol has been s abused as an alcol	shown to be carci			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
	64-17-5	Group 1	Not listed	A3	Х	Not listed
Ethyl alcohol	04-17-3		Not listed	7.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Not listed

oomponone				7.0011	00177	moxico
Ethyl alcohol	64-17-5	Group 1	Not listed	A3	Х	Not listed
Water	7732-18-5	Not listed				
Methyl alcohol	67-56-1	Not listed				
Methylisobutyl ketone	108-10-1	Group 2B	Not listed	A3	Х	Not listed
Ethylacetate	141-78-6	Not listed				
Hexane	110-54-3	Not listed				
Toluene	108-88-3	Not listed				
IARC: (International Agency for Research on Cancer) IARC: (International Agency for Research on Cancer)						

ARC. (International Agency for Research on Cancer)	171
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ACGIH: (American Conference of Governmental Industrial Hygienists)

Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists) Mutagenic effects have occurred in humans.

Reproductive Effects	Adverse reproductive effects have occurred in humans.
Developmental Effects	Substances known to cause developmental toxicity in humans. Component substance is listed on California Proposition 65 as a developmental hazard.
Teratogenicity	Teratogenic effects have occurred in humans.
STOT - single exposure STOT - repeated exposure	Respiratory system Central nervous system (CNS) Optic nerve Kidney Liver Blood
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

12. Ecological information

<u>Ecotoxicity</u> Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethyl alcohol	EC50 (72h) = 275 mg/l (Chlorella vulgaris)	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h	Photobacterium phosphoreum:EC50 = 34634 mg/L/30 min Photobacterium phosphoreum:EC50 = 35470 mg/L/5 min	Ū.
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h
Methylisobutyl ketone	EC50: 400 mg/L/96h	496 - 514 mg/L LC50 96 h	EC50 = 79.6 mg/L 5 min	EC50: 4280.0 mg/L/24h EC50: 170 mg/L/48h EC50: 4280.0 mg/L/24h
Ethylacetate	EC50 = 3300 mg/L/48h	Fathead minnow: LC50: 230 mg/l/ 96h Gold orfe: LC50: 270 mg/L/48h	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50 = 717 mg/L/48h
Hexane	Not listed	2.1 - 2.98 mg/L LC50 96 h	Not listed	EC50: 3.87 mg/L/48h
Toluene	12.5 mg/L EC50 = 72 h 433 mg/L EC50 > 96 h	50-70 mg/L LC50 96 h 5-7 mg/L LC50 96 h 15-19 mg/L LC50 96 h 28 mg/L LC50 96 h 12 mg/L LC50 96 h	EC50 = 19.7 mg/L 30 min	11.5 mg/L EC50 = 48 h 5.46 - 9.83 mg/L EC50 48 h

Persistence and Degradability

Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** 

No information available.

#### Mobility

Will likely be mobile in the environment due to its volatility.

Component	log Pow
Ethyl alcohol	-0.32
Methyl alcohol	-0.74
Methylisobutyl ketone	1.19
Ethylacetate	0.6
Hexane	4.11

Toluene

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

information

2.65

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methyl alcohol - 67-56-1	U154	-
Methylisobutyl ketone - 108-10-1	U161	-
Ethylacetate - 141-78-6	U112	-
Toluene - 108-88-3	U220	-

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	14. Transport
DOT	
UN-No	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	II
TDG	
UN-No	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	II
UN-No	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	11
	15 Deculator

# 15. Regulatory information

# International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ethyl alcohol	Х	Х	-	200-578-6	-		Х	Х	Х	Х	Х
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Methyl alcohol	Х	Х	-	200-659-6	-		Х	Х	Х	Х	Х
Methylisobutyl ketone	Х	Х	-	203-550-1	-		Х	Х	Х	Х	Х
Ethylacetate	Х	Х	-	205-500-4	-		Х	Х	Х	Х	Х
Hexane	Х	Х	-	203-777-6	-		Х	Х	Х	Х	Х
Toluene	Х	Х	-	203-625-9	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

#### TSCA 12(b)

Not applicable

# **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	3.738	1.0
Methylisobutyl ketone	108-10-1	0.935	1.0
Hexane	110-54-3	0.822	1.0
Toluene	108-88-3	0.075	1.0

#### SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Toluene	Х	1000 lb	Х	Х

### **Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	Х		-
Methylisobutyl ketone	Х		-
Hexane	Х		-
Toluene	Х		-

**OSHA** Occupational Safety and Health Administration Not applicable

# CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol	5000 lb	-
Methylisobutyl ketone	5000 lb	-
Ethylacetate	5000 lb	-
Hexane	5000 lb	-
Toluene	1000 lb 1 lb	-

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California F	California Prop. 65 Prop 65 NSR		Category
Ethyl alcohol	64-17-5	Developm	nental	-	Developmental Carcinogen
Methyl alcohol	67-56-1	Developm	nental	-	Developmental
Methylisobutyl ketone	108-10-1		- Carcinogen - Developmental		Developmental Carcinogen
Toluene	108-88-3	Developm Female Repi		-	Developmental
State Right-to-Know					
Component	Massachusetts	New Jersey	Pennsylvani	a Illinois	Rhode Island
Ethyl alcohol	Х	Х	Х	Х	Х

Methyl alcohol	Х	Х	Х	Х	Х
Methylisobutyl ketone	Х	Х	Х	Х	Х
Ethylacetate	Х	Х	Х	-	Х
Hexane	Х	Х	Х	Х	Х
Toluene	Х	Х	Х	Х	Х

#### U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade

Serious risk, Grade 3

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

B2 Flammable liquid D2A Very toxic materials



# 16. Other information

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Creation Date Revision Date Print Date Revision Summary 21-Oct-2009 29-Oct-2014 29-Oct-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

Prepared By

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

# **End of SDS**